



## Presented by:

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### **Agenda**

- 1. Introductory Case Study
- 2. Goals of Data Analytics
- 3. Designing Data Analytics
- Vendor Fraud
- 5. Credit Card Schemes
- 6. Payroll Fraud





## Eddie\*, the Buyer

- Buyer for large organization.
- Specialized in Maintenance, Repair and Operations ("MRO") Supplies\*

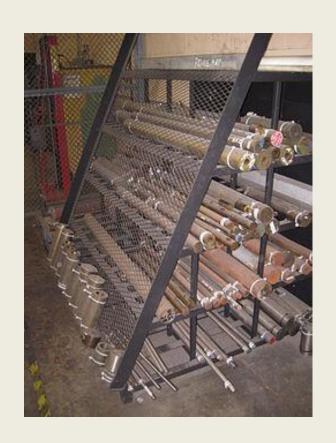
\* Although the case study is real, the name and types of product have been changed.





## **Eddie, the Buyer**

- Handled Millions of Dollars of Purchases.
- Disgruntled Feeling Underpaid.
- Daughter in Bad Neighborhood.







#### Richard, the Supplier

- Lives beyond his means. Buys luxury items while headed for bankruptcy.
- Undergoing a divorce.
   Uses cocaine.
- Meets Eddie and they concoct a scheme.







#### **Eddie, the Buyer**

- Arranges for standard 10% kickback.
- Convinces self that the organization is not losing money.
- Rationalizes that others make more money than he.







## Case Study Eddie, the Buyer

- Terminates the previous suppliers of MRO Supplies.
- Awards Richard the business.







#### John, Buyer of Richard's Assets

- Richard goes bankrupt.
- John finds in boxes three canceled checks from Richard to Eddie. Checks were for small amounts of money.
- John notifies executive manager in organization.





## The Response

- Full investigation is launched.
- Our team obtains data on all of Eddie's purchases.





#### **EDDY'S PURCHASES**

Part #	Vendor #	<u>2004</u>	<u> 2005</u>	<u>2006</u>	<u> 2007</u>	<u> 2008</u>	<u> 2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>
R107000B02	A234	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40
R110000B02	A259	\$4.44	\$4.64	\$5.33	\$4.93	\$4.94	\$6.22	\$5.78	\$6.59	\$5.70
R112000014	B001	\$1.69	\$1.64	\$1.75	\$1.69	\$1.87	\$2.17	\$2.17	\$2.22	\$2.12
R105000000	B034	\$0.47	\$0.46	\$0.49	\$0.47	\$0.52	\$0.60	\$0.60	\$0.62	\$0.59
R116000002	B035	\$3.80	\$3.69	\$3.98	\$3.79	\$4.21	\$4.87	\$4.86	\$4.99	\$4.78
R112000015	B123	\$1.94	\$1.88	\$2.02	\$1.94	\$2.15	\$2.49	\$2.48	\$2.66	\$2.44
R116000001	C163	\$29.70	\$28.84	\$30.98	\$29.64	\$32.89	\$38.91	\$38.00	\$38.90	\$37.34
R124000U00	C234	\$6.80	\$6.60	\$7.90	\$6.79	\$7.53	\$8.72	\$8.70	\$8.93	\$8.55
R120000002	C346	\$4.95	\$4.81	\$5.16	\$4.94	\$5.48	\$6.35	\$6.33	\$6.33	\$6.22
R114000014	C834	\$2.50	\$2.43	\$2.61	\$2.49	\$2.77	\$3.20	\$3.30	\$3.38	\$3.14
R112000B02	D234	\$7.18	\$7.51	\$8.62	\$7.97	\$4.94	\$10.05	\$9.35	\$10.66	\$9.22
R121000001	D235	\$5.58	\$5.42	\$5.82	\$5.57	\$6.18	\$7.15	\$7.14	\$7.32	\$7.03
R112000U02	K143	\$1.94	\$1.88	\$2.02	\$1.94	\$2.15	\$2.49	\$2.49	\$2.55	\$2.44
R112000012	K234	\$1.69	\$1.69	\$1.69	\$1.69	\$1.69	\$1.69	\$1.69	\$1.69	\$1.69
R113000U02	K234	\$2.34	\$2.27	\$2.44	\$2.34	\$2.59	\$3.00	\$2.99	\$3.07	\$2.94
R116000U02	K932	\$3.80	\$3.69	\$3.96	\$3.79	\$4.21	\$4.87	\$4.86	\$4.86	\$4.78
R116000U00	L011	\$3.37	\$3.27	\$3.50	\$3.36	\$3.73	\$4.32	\$4.31	\$4.42	\$4.24
R113000U00	L043	\$2.05	\$1.99	\$2.14	\$2.05	\$2.27	\$2.63	\$2.62	\$2.69	\$2.56
R120000U02	N123	\$4.95	\$4.81	\$5.16	\$4.09	\$5.48	\$6.35	\$6.33	\$6.50	\$6.22
R121000U02	N323	\$5.58	\$5.42	\$5.82	\$5.57	\$6.18	\$7.15	\$7,14	\$7.32	\$7.02
R110000003	N434	\$1.25	\$1.21	\$1.30	\$1.25	\$1.38	\$1.60	\$	hard's C	<b>1.57</b>

**\$3.37 \$3.37 \$3.37** 

\$4.94

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\$5.48

\$3.37

\$4.81

**\$3.37** 

\$4.95

R116000U03

R121000U03

U635

U772

\$3.37

\$6.35

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\$6. 3 \$6.50

#### **EDDY'S PURCHASES**

<u>2008</u>

\$3.40

2009

\$3.40

<u>2007</u>

\$3.40

2004

\$3.40

Vendor#

A234

Part #

R107000B02

<u>2005</u>

\$3.40

\$1.21

**\$3.37** 

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\$1.25

**\$3.37** 

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N434

U635

R110000003

R116000U03

<u>2006</u>

\$3.40

2011

<u>2012</u>

\$3.40

<u>2010</u>

								<b>*</b>		
R110000B02	A259	\$4.44	\$4.64	\$5.33	\$4.93	\$4.94	\$6.22	\$5	Compa	\$5.70
R112000014	B001	\$1.69	\$1.64	\$1.75	\$1.69	\$1.87	\$2.17	\$2.17	DE.	2.12
R105000000	B034	\$0.47	\$0.46	\$0.49	\$0.47	\$0.52	\$0.60	\$0.60	\$0.62	\$0.59
R116000002	B035	\$3.80	\$3.69	\$3.98	\$3.79	\$4.21	\$4.87	\$4.86	\$4.99	\$4.78
R112000015	B123	\$1.94	\$1.88	\$2.02	\$1.94	\$2.15	\$2.49	\$2.48	\$2.66	\$2.44
R116000001	C163	\$29.70	\$28.84	\$30.98	\$29.64	\$32.89	\$38.91	\$38.00	\$38.90	\$37.34
R124000U00	C234	\$6.80	\$6.60	\$7.90	\$6.79	\$7.53	\$8.72	\$8.70	\$8.93	\$8.55
R120000002	C346	\$4.95	\$4.81	\$5.16	\$4.94	\$5.48	\$6.35	\$6.33	\$6.33	\$6.22
R114000014	C834	\$2.50	\$2.43	\$2.61	\$2.49	\$2.77	\$3.20	\$3.30	\$3.38	\$3.14
R112000B02	D234	\$7.18	\$7.51	\$8.62	\$7.97	\$4.94	\$10.05	\$9.35	\$10.66	\$9.22
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R112000012	K234	\$1.69	\$1.69	\$1.69	\$1.69	\$1.69	\$1.69	\$1.69	\$1.69	\$1.69
R113000U02	K234	\$2.34	\$2.27	\$2.44	\$2.34	\$2.59	\$3.00	\$2.99	\$3.07	\$2.94
R116000U02	K932	\$3.80	\$3.69	\$3.96	\$3.79	\$4.21	\$4.87	\$4.86	\$4.86	\$4.78
R116000U00	L011	\$3.37	\$3.27	\$3.50	\$3.36	\$3.73	\$4.32	\$4.31	\$4.42	\$4.24
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R120000U02	N123	\$4.95	\$4.81	\$5.16	\$4.09	\$5.48	\$6.35	\$6.33	\$6.50	\$6.22
R121000U02	N323	\$5.58	\$5.42	\$5.82	\$5.57	\$6.18	\$7.15	\$7.14	\$7.32	\$7.02

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**ФГ 40** 

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#### **EDDY'S PURCHASES**

2008

\$3.40

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\$3.37

**ФГ 10** 

\$1.60

\$3.37

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<u>2009</u>

\$3.40

**2010** 

\$1.60

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\$1.57

\$3.37

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<u>2011</u>

\$3,40 \$3,40

<u>2012</u>

\$3.40

<u>2007</u>

\$3,40 \$3,40

2004

\$3.40

Vendor#

Part #

R110000003

R116000U03

N434

U635

2005

\$3.40

\$1.21

\$3.37

**MA 04** 

\$1.30

\$3.37

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\$1.25

**\$3.37** 

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2006

R107000B02	A234	ΨΟ.ΤΟ	ΨΟ.ΤΟ	ψυ.τυ	ΨΟ.ΤΟ	ψυ.τυ	ΨΟ.ΤΟ	ΨΟ.ΤΟ	ψυ.τυ	ΨΟ.ΤΟ
R110000B02	A259	\$4.44	\$4.64	\$5.33	\$4.93	\$4.94	\$6.22	\$5.78	\$6.59	\$5.70
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R112000012	K234	\$1.69	\$1.69	\$1.69	\$1.69	\$1.69	\$1.69	1.69	\$1.69	\$1.69
R113000U02	K234	\$2.34	\$2.27	\$2.44	\$2.34	\$2.59	\$3.0	3rd C	\$3.07	\$2.94
R116000U02	K932	\$3.80	\$3.69	\$3.96	\$3.79	\$4.21	\$4.87	Om	pany 2	\$4.78
R116000U00	L011	\$3.37	\$3.27	\$3.50	\$3.36	\$3.73	\$4.32	\$4.31	2	\$4.24
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\$1.25

\$3.37

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#### **Our Approach**

- Investigative team approaches interview as operational audit.
- Maps out procurement and inventory processes.
- Establishes that Eddie knew his job duties.







Eddie acknowledges he knew he was supposed to buy based on:

- Price
- Shipping Costs
- Supplier Reliability
- Supplier Capacity
- Site Visits to Supplier





- Had evidence on only Richard's company.
- Obtained signed confession on two more, based exclusively on data analysis.







- Total kickbacks: \$1.3 million.
- Recovered \$924,000 the next day.
- Recovered rest from insurance company.







- Why the steady pricing?
- Math on fluctuating prices was too complex.
- Eddie didn't want to do the kickback math.







#### **Goal of Data Analytics**

Identify suspicious transactions.

Identify patterns of possible **fraud** and insider schemes.

Identify unnecessary spending.







#### **Designing Data Analytics**

What **businesses processes** are at risk?

What data is available?

What **fraud schemes** are possible?







### **Designing Data Analytics**

**Bottom line:** 

What Do We Want to Know?

There are hundreds of possible analyses.





#### What Do We Want to Know?

## Vendor Schemes





#### What Do We Want to Know?

Are suppliers paying kickbacks to your agency's buyers?







#### What Do We Want to Know?

Is your agency paying fictitious vendors?

Are vendors overbilling?

Are employees self-dealing?







## Approach:

- Identify relationships between agency buyers and vendors.
- Identify agency buyers who own companies, a vehicle for kickbacks.
- Create "models" to identify high-risk vendors.





- Merge the **employee** and **vendor** master files. (Include temporary employees, independent contractors, terminated employees, and employees on workers compensation leave.)
- Identify when an employee and a vendor share the same address, cell phone number, home phone number, fax number, email address, or bank account number. Test each data field separately.
- Investigate anomalies.





- Identify instances in which a reference or an emergency contact for an employee is also a vendor.
- Determine if the employee brought in the vendor and whether the vendor is receiving increasingly more revenue from your agency.







- Identify instances in which the health or life beneficiary of an employee is also a vendor.\*
- For vendors with significant amounts of revenue, investigate how and when the company became a vendor and whether the employee was responsible for bringing in the vendor.
- Ensure legitimacy of vendor.
  - \* In compliance with HIPAA laws.





- Identify companies being paid that are not on the approved vendor list.
- If number of unapproved vendors is substantial and routine, identify unapproved vendors that appear on other lists requiring greater scrutiny. (Modeling)





Identify vendors with nearly identical names.
 Ensure funds designated for one have not been diverted to the other – a common ploy.



VANDER WEELE GROUP LE Facts Into Strategy

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- Department or characterized as buyers and search **Secretary of State** records to determine if they are principals or registered agents of any company.
- Determine whether these companies are vendors of your organization.
- Investigate to ensure no conflict exists.







Look for unusual increases in vendors' prices or rates in conjunction with other indicators of risk.







Look for unusual numbers of adjustments to invoices after they have been approved.







Identify contractors whose invoices are submitted with sequential invoice numbers.





Identify contractors with large numbers of **change orders**.







Upload labor payments and identify duplicates or overbilling.

#### **News Article**

A South Side contractor billed the city school system for hundreds of hours of labor for 10 pipefitters named Usher, but five of them say they never worked for the company, a Chicago Sun-Times investigation has found.

The Chicago Board of Education has been billed \$2.6 million over the last five years by the company, Arthur J. Usher and Sons, which operates from a residence in the Beverly neighborhood.

The company submitted bills for work by Art, Bill, Charles, Dave, John, Mike, Pat, Paul, Pete and Robert Usher along with two other workers.

But Charles, Dave, Pete, Robert and John said they have never worked for Arthur Usher and Sons. And William Usher, the father of the other Ushers, said his son Paul is not a pipefitter....





## What Do We Want to Know?

# Credit Card Schemes





## What Do We Want to Know?

Is your agency paying for items or services for employees' personal use?







Conduct pattern analysis on **credit card expenditures**. Identify individuals, sites, and vendors with largest expenditures. Investigate anomalies.







Search
 credit card
 records for
 key words
 associated
 with luxury
 items.







Analysis of Nearly
\$40 Million of
Credit Card Expenditures
Over Two Years





## **Examples of Analyses Conducted**

- Questionable Expenditures
- Top 25 Spending Categories
- Expenses by Cardholders
- Expenses by Supplier
- Expenses by Location
- Potentially Inappropriate Suppliers
- Employees of Interest (145)





## **Categories of Interest – Examples**

- Amusement Parks
- Art Dealers
- Artist Supply Shops
- Barber and Beauty Shops
- Bicycle Shops
- Boat Dealers and Leases
- Bowling Alleys
- Cable T.V.

- Camera Stores
- Charitable and Social Organizations
- Cigars
- Clock, Jewelry Watch Stores
- Clothing Stores (Five Categories)
- Cosmetic Stores
- Crystal and Glassware Stores





## **Categories of Interest – Examples**

- Dentists, Orthodontics
- Doctors, Physicians
- Drapery Upholstery Stores
- Dry Cleaners
- Electric Razor Stores
- Elementary/Secondary Schools
- Fabric,
   Needlework/Sewing
   Fireplace and
   Accessories Store

- Freezer, Locker Meat
- Game, Toy and Hobby Stores
- Health and Beauty Spas
- Health Practitioners, Medical Services (Massages)
- Hospitals
- Leather Goods and Luggage
- Marinas





## **Categories of Interest – Examples**

- Miscellaneous Personal Services
- Motion Picture Theaters
- Motorcycle Dealers
- Music Stores
- Opticians, Optometrists
- Orchestras
- Orthopedic Goods
- Pet Stores

- Political Associations
- Religious Goods Stores
- Religious Organizations
- Second Hand Stores
- Sporting Good Stores
- Stamp and Coin
   Dealers
- Swimming Pools
- Video Games





Top 15 Cardholders		
Cardholder	Total	
Cardholder 1	\$1,153,380.19	
Cardholder 2	\$696,615.00	
Cardholder 3	\$453,937.62	
Cardholder 4	\$417,220.99	
Cardholder 5	\$380,813.44	
Cardholder 6	\$372,012.27	
Cardholder 7	\$349,520.95	
Cardholder 7	\$308,654.74	
Cardholder 8	\$261,736.34	
Cardholder 9	\$235,557.96	
Cardholder 10	\$226,086.81	



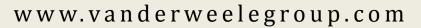


Example of Questionable Cardholder

Made 873
transactions
totaling \$245,304
over two years.

- Pajamagram Company: \$115.75
- Karen Neuburger **Pajama** Store: **\$104.00**
- Cigar Store in Nevada: \$391.50
- Coheso CalorieSmart Tracker: \$117.90
- American Express \$16k
- Savoy Hotel in London \$4,757.35
- Eaglewood Resort and Spa \$2k
- Four Seasons Hotel in London \$2,303
- The Breast Cancer Site \$1,070.85
- TheSportsAuthority.com \$792.95
- Leave It to Us Events \$1,350.00
- SitClose Tickets, LLC \$2,799.00









# Example of Questionable Cardholder

Made 111 transactions totaling \$31,384 over two years.

- Kohl's
- Best Buy
- JC Penney's
- Wal-Mart
- Target
- Bath and Body Works

- Tower Record Store
- Sporting Goods Store
- Kroger
- Sports Apparel Shop





## Third Year after Two Years of Analyses

Number of transactions dropped by **45,216.** 

Credit card expenses dropped by \$16.37 million over three years.

Credit Card Expenditures Credit Card Analysis Began After Year One		
	# of Transactions	Dollar Amount
Year 1	81,339	\$26.9 million
Year 2	45,216	\$16.37 million
Year 3	36,123	\$10.53 million





- Data was not consistently categorized.
- Fields were not consistently labeled.
- Categories were not created to detect fraud or identify significant trends.

Meals/Food Bakeries

Meals/Food Bars, Lounges

Meals/Food Candy, Nut, Confectionary

Meals/Food Caterers

Meals/Food Eating Places, Restaurants

Meals/Food Fast Food Restaurants

Meals/Food Freezer, Locker, Meats

Meals/Food Miscellaneous Food

Meals/Food Package Stores

Meals/Food **Supermarkets** 





#### Multiple Name Variations (Fictional Example)

- De-Tendre's Bathroom Supply
- De-Tendre's Bathroom Supplies
- De Tendre's Faucet
- De Tendre's Inc
- De-Tendres Supplies
- De Tendres
- De Tendre's Inc.
- Bathoom Supply, De Tendre's
- De-Tendre Faucets

- De\*Tendre's, Inc.
- De\*Tendres
- De\*Tendre's®
- De'Tendre's
- Detendre, Inc.
- Detendre's, Inc.
- DeTenders Faucet Co
- De-Tendre's, Inc.





- Data error entries were common.
- Abbreviations differed.

```
P,O. Box 123
P.O. Box # 123
 PO Box @ 123
  #123
   PO 123
   Ste. 123
Suite 123
```





Preparing
("cleansing") the
data was a
painstaking
process.

```
P,O. Box 123 = PO123

P.O. Box # 123 = PO123

PO Box @ 123 = PO123

# 123 = PO123

PO 123 = PO123

Ste. 123 = PO123

Ste. 123 = PO123

Suite 123
```





## What Do We Want to Know?

# Payroll Schemes





## What Do We Want to Know?

Is your agency paying "ghost" employees?

Are employees billing for time that they did not work?







Determine whether two or more employees use the same Social Security number.







Determine whether two or more employees use the same address, cell phone number, home phone number, email address, bank account number, or emergency contact name or phone number. If so, verify that they are members of the same household and both are employed with your agency.





Identify employees receiving paychecks who are **not on** HR's Master Employee List.





Identify employees with significant amounts of missing information in HR database e.g. emergency contact numbers, ethics disclosure statements, training records, employee evaluations, W-9's, health insurance elections, deductions, and so on.





GOOGLE INC.	Cheque No:
1600 AMPHITHEATRE PARKWAY MOUNTAIN VIEW, CA 94043	Client No:
	Date: JANUARY 25, 2007
Pay against this cheque To ABI NARAYAN BHUTAN MAJES	Amount: USD ************777.50
The Sum of SEVEN HUNDRED SEVENTY-SEVEN AND 50/100 U.S. DOLLAR	Or Order
Payable at CITIBANK, N.A. THROUGH CITIBANK (NEW YORK STATE) ABA	For: CITIBANK EUROPE PLC  Willin Wul  Authorized Signature
PRINCIPLE NO. 100 PROPERTY.	\$W3/957

Identify paychecks made on off days, weekends or holidays, if payment on those days is not a usual practice.





Identify gaps in check number sequences to identify missing checks in the payroll registry. Match those against bank accounts to determine if the missing checks were paid.







Compare terminated employees, employees on workers compensation rolls or employees receiving pension payouts with **payroll list.** 





Obtain list of employees and

overtime pay. Sort from highest to lowest paid. Investigate circumstances around those with highest amounts of overtime pay.







Investigate individuals paid more than 24 hours a day.







Look for **duplicate paychecks**.







Identify number of checks per employee issued in the same year. Look for outliers.







Conduct trend analysis of payroll to identify large increases in pay per employee or other unusual patterns.







# Case Study – Payroll Fraud

- Analysis of approximately \$7 billion of payroll expenditures.
- "Proof of Concept" project to identify "red flags" of fraud or irregular patterns.





#### **Preliminary Findings**

- Nearly 100 instances in which active employees were paid more than \$10,000 in a single pay period.
- Dozens of instances in which active employees were paid for more than 500 hours.
- About 500 instances in which large payments were made over multiple pay periods.





#### **Preliminary Findings**

- Hundreds of employees associated with addresses outside of the geographical area of their work location, many of them hundreds of miles and across the country.
- Many manual and off-cycle checks. Some employees with no taxes withheld.
- Dozens of active employees not associated with any address.





## Questions?

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